

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: October 6, 2004

(use as many sheets as necessary)

## Complete if Known

Application Number 10/617,535  
Filing Date 7/11/2003  
First Named Inventor Ingo Koch  
Group Art Unit 2858  
Examiner Name To be determined DEB  
Attorney Docket Number 054821-0862

Sheet 1 of 1

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number	Kind Code <sup>2</sup> (if known)				
AD	A1	6,304,059	B1	Chalasani et al.	10-16-2001	320	118
AD	A2	5,656,915		Eaves	08-12-1997	320	118
AD	A3	5,563,496		McClure	10-08-1996	320	128
AD	A4	5,439,577		Weres et al.	08-08-1995	204	268

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

Examiner Signature

ADb

Date Considered

2/16/2005

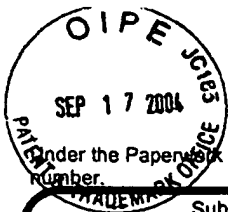
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Date Submitted: September 17, 2004

(use as many sheets as necessary)

## Complete if Known

Application Number	10/617,535
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First Named Inventor	Ingo Koch
Group Art Unit	2858
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Sheet 1 of 6

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		Number	Kind Code <sup>2</sup> (if known)			Class	Sub
AD	A1	2004/0021468	A1	Dougherty et al.	02-05-2004	324	429
AD	A2	2003/0236656	A1	Dougherty	12-25-2003	703	14
AD	A3	6,653,818	B2	Laig-Horstebroek et al.	11-25-2003	320	132
AD	A4	6,608,482	B2	Sakai et al.	08-19-2003	324	426
AD	A5	2003/0142228	A1	Flach et al.	07-31-2003	348	335
AD	A6	6,600,293	B2	Kikuchi	07-29-2003	320	131
AD	A7	6,600,237	B1	Meissner	07-29-2003	307	34
AD	A8	2003/0082440	A1	Mrotek et al.	05-01-2003	429	123
AD	A9	6,556,019	B2	Bertness	04-29-2003	324	426
AD	A10	6,534,992	B2	Meissner et al.	03-18-2003	324	426
AD	A11	2003/0047366	A1	Andrew et al.	03-13-2003	180	68.5
AD	A12	6,522,148	B2	Ochiai, et al.	02-18-2003	324	428
AD	A13	6,515,456	B1	Mixon	02-04-2003	320	160
AD	A14	6,515,452	B2	Choo	02-04-2003	320	132
AD	A15	6,507,194	B2	Suzuki	01-14-2003	320	132
AD	A16	6,495,990	B2	Champlin	12-17-2002	320	132
AD	A17	6,472,875	B1	Meyer	10-29-2002	324	327
AD	A18	6,452,361	B2	Dougherty et al.	09-17-2002	320	104
AD	A19	6,445,158	B1	Bertness et al.	09-03-2002	320	104
AD	A20	6,441,585	B1	Bertness	08-27-2002	320	132
AD	A21	6,424,157	B1	Gollomp et al.	07-23-2002	324	430
AD	A22	6,417,668	B1	Howard et al.	07-09-2002	324	426
AD	A23	6,392,415	B2	Laig-Horstebroek et al.	05-21-2002	324	433
AD	A24	6,392,414	B2	Bertness	05-21-2002	324	429
AD	A25	6,392,389	B1	Kohler	05-21-2002	320	152
AD	A26	6,388,450	B2	Richter et al.	05-14-2002	324	427
AD	A27	6,388,421	B2	Abe	05-14-2002	320	104
AD	A28	6,369,578	B1	Crouch, Jr. et al.	04-09-2002	324	426
AD	A29	2002/0031700	A1	Wruck et al.	03-14-2002	429	61
AD	A30	2002/0026252	A1	Wruck et al.	02-28-2002	700	90
AD	A31	2002/0008495	A1	Dougherty et al.	01-24-2002	320	104
AD	A32	6,331,762	B1	Bertness	12-18-2001	320	134
AD	A33	6,300,763	B1	Kwok	10-08-2001	324	427
AD	A34	6,296,593	B1	Gotou et al.	10-02-2001	477	176
AD	A35	6,271,642	B1	Dougherty et al.	08-07-2001	320	104
AD	A36	6,268,712	B1	Laig-Horstebroek et al.	07-31-2001	320	132
AD	A37	6,222,341	B1	Dougherty et al.	04-24-2001	320	104
AD	A38	6,160,382		Yoon et al.	12-12-2000	320	136
AD	A39	6,144,185		Dougherty et al.	11-07-2000	320	132
AD	A40	6,118,275		Yoon et al.	09-12-2000	324	427
AD	A41	6,118,252		Richter	09-12-2000	320	132
AD	A42	6,091,325		Zur et al.	07-18-2000	340	455

Examiner  
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: September 17, 2004  (use as many sheets as necessary)		Application Number	10/617,535
		Filing Date	7/11/2003
		First Named Inventor	Ingo Koch
		Group Art Unit	2858
		Examiner Name	To be determined DEB
Sheet	2	of	6
		Attorney Docket Number	054821-0862

n.S. PATENT DOCUMENTS							
		U.S. Patent Document				Class	Sub
AD	A43	6,087,808	Pritchard	07-11-2000		320	132
AD	A44	6,057,666	Dougherty et al.	05-02-2000		320	104
AD	A45	6,037,777	Champlin	05-14-2000		324	430
AD	A46	6,037,749	Parsonage	03-14-2000		320	132
AD	A47	6,016,047	Notten et al.	01-18-2000		320	137
AD	A48	5,990,660	Meissner	11-23-1999		320	127
AD	A49	5,977,654	Johnson et al.	11-02-1999		307	10.3
AD	A50	5,965,954	Johnson et al.	10-12-1999		307	10.3
AD	A51	5,936,383	Ng et al.	08-10-1999		320	132
AD	A52	5,898,292	Takemoto et al.	04-27-1999		320	136
AD	A53	5,896,023	Richter	04-20-1999		320	104
AD	A54	5,818,333	Yaffe et al.	10-06-1998		340	455
AD	A55	5,818,116	Nakae et al.	10-06-1998		290	382
AD	A56	5,808,445	Aylor et al.	09-15-1998		320	132
AD	A57	5,808,367	Akagi et al.	09-15-1998		290	400
AD	A58	5,773,977	Dougherty	06-30-1998		324	429
AD	A59	5,761,072	Bardsley, Jr. et al.	06-02-1998		702	63
AD	A60	5,744,963	Arai et al.	04-28-1998		324	427
AD	A61	5,744,936	Kawakami	04-28-1998		320	120
AD	A62	5,721,688	Bramwell	02-24-1998		702	63
AD	A63	5,698,965	York	12-16-1997		307	130
AD	A64	5,680,050	Kawai et al.	10-21-1997		324	427
AD	A65	5,578,915	Crouch, Jr. et al.	11-26-1996		324	428
AD	A66	5,572,136	Champlin	11-05-1996		324	426
AD	A67	5,552,642	Dougherty et al.	09-03-1996		307	10.3
AD	A68	5,549,984	Dougherty	08-27-1996		429	61
AD	A69	5,488,283	Dougherty et al.	01-30-1996		307	10.1
AD	A70	5,428,560	Leon et al.	06-27-1995		703	13
AD	A71	5,416,402	Reher et al.	05-16-1995		340	636.16
AD	A72	5,412,323	Kato et al.	05-02-1995		324	429
AD	A73	5,404,129	Novak et al.	04-04-1995		340	428
AD	A74	5,381,096	Hirzel	01-10-1995		324	427
AD	A75	5,352,968	Reni et al.	10-04-1994		320	136
AD	A76	5,321,627	Reher	06-14-1994		702	63
AD	A77	5,316,868	Dougherty et al.	05-31-1994		429	9
AD	A78	5,281,919	Palanisamy	01-25-1994		324	427
AD	A79	5,280,231	Kato et al.	01-18-1994		322	28
AD	A80	5,223,351	Wruck	06-29-1993		429	9
AD	A81	5,204,610	Pierson et al.	04-20-1993		320	126
AD	A82	5,162,164	Dougherty et al.	11-10-1992		429	9
AD	A83	5,159,272	Rao et al.	10-27-1992		324	429
AD	A84	5,130,699	Reher et al.	07-14-1992		340	661
AD	A85	5,079,716	Lenhardt et al.	01-07-1992		320	153
AD	A86	5,055,656	Farah et al.	10-08-1991		219	209

Examiner Signature	AD6	Date Considered	2/16/2005
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				Group Art Unit	2858
				Examiner Name	To be determined DEB
				Attorney Docket Number	054821-0862
Sheet	3	of	6		

n.S. PATENT DOCUMENTS							
		U.S. Patent Document				Class	Sub
A>	A87	5,032,825		Kuznicki	07-16-1991	340	636.15
A>	A88	5,002,840		Klebenow et al.	03-26-1991	429	9
A>	A89	4,952,861		Horn	08-28-1990	320	133
A>	A90	4,943,777		Nakamura et al.	07-24-1990	324	433
A>	A91	4,937,528		Palanisamy	06-26-1990	324	430
A>	A92	4,888,716		Ueno	12-19-1989	702	63
A>	A93	4,876,513		Brilmyer et al.	10-24-1989	324	427
A>	A94	4,816,736		Dougherty et al.	03-28-1989	320	116
A>	A95	4,719,427		Morishita et al.	01-12-1988	324	427
A>	A96	4,665,370		Holland	05-12-1987	324	429
A>	A97	4,659,977		Kissel et al.	04-21-1987	320	150
A>	A98	4,642,600		Gummelt et al.	02-10-1987	338	34
A>	A99	4,595,880		Patil	06-17-1986	324	427
A>	A100	4,322,685		Frailing et al.	03-30-1982	324	429
A>	A101	4,207,611		Gordon	06-10-1980	701	33
A>	A102	4,193,025		Frailing et al.	03-11-1980	324	427
A>	A103	4,153,867		Jungfer, deceased et al.	05-08-1979	324	436
A>	A104	3,906,329		Bader	09-16-1975	320	134

FOREIGN PATENT DOCUMENTS									
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			Cl.	Figures Appear	
✓ A>	A105	WO	03/001224	A1	Johnson Controls Technology	01-03-2003	—	—	
✓ A>	A106	DE	699 00 638	T2	Alvarez	08-22-2002	—	—	
✓ A>	A107	DE	100 21 161	A1	Kaiser	10-31-2001	—	—	
✓ A>	A108	DE	93 21 638	U1	Champlin	08-30-2001	—	—	
✓ A>	A109	EP	1 120 641	A2	Illinois Tool Works, Inc.	08-01-2001	—	—	
✓ A>	A110	EP	1 116 958	A2	VB Autobatterie GmbH	07-18-2001	—	—	
✓ A>	A111	DE	199 52 693	A1	Akkumulatorenfabrik Moll GmbH & Co.	05-23-2001	—	—	
✓ A>	A112	DE	199 60 761	C1	Schöner et al.	05-23-2001	—	—	
✓ A>	A113	WO	01 15023		Motorola, Inc.	03-01-2001	—	—	
✓ A>	A114	DE	694 23 918	T2	Shelton et al.	08-03-2000	—	—	
✓ A>	A115	DE	198 47 648	A1	VB Autobatterie GmbH et al.	04-20-2000	—	—	
✓ A>	A116	DE	691 31 276	T2	Champlin	12-30-1999	—	—	
✓ A>	A117	WO	99 66340		Korea Kumho Petrochemical Co., Ltd.	12-23-1999	—	—	
✓ A>	A118	DE	197 50 309	A1	VB Autobatterie GmbH	05-20-1999	—	—	
✓ A>	A119	WO	97/15839		Globe-Union, Inc.	05-01-1997	—	—	
✓ A>	A120	DE	195 43 874		Yazaki Corp.	05-30-1996	—	—	
✓ A>	A121	DE	195 40 827	A1	Mercedes-Benz Aktiengesellschaft	05-23-1996	—	—	

Examiner  
Signature

A>4

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)					
AD	A122	DE	689 24 169	T2	Alliedsignal, Inc.	03-21-1996	—	—	
AD	A123	DE	43 39 568		Robert Bosch GmbH	05-24-1995	—	—	
AD	A124	DE	44 14 134	A1	Dial Engineering AG	11-10-1994	—	—	
AD	A125	DE	38 82 374	T2	Ford-Werke AG	10-28-1993	—	—	
AD	A126	EP	0 516 336	B1	Fang	02-12-1992	—	—	
AD	A127	DE	40 07 883	A1	Moto Meter AG	09-19-1991	—	—	
AD	A128	DE	38 08 559	A1	Hella KG Hueck & Co.	09-28-1989	—	—	
AD	A129	DE	37 12 629	C2	Hitachi, Ltd.	10-15-1987	—	—	
AD	A130	DE	33 34 128	A1	Licentia Patent-Verwaltungs-GmbH	04-04-1985	—	—	
AD	A131	DE	25 11 426	A1	Illinois Tool Works, Inc.	09-25-1975	—	—	
AD	A132	DE	2 242 510	C3	Bader	04-04-1974	—	—	
AD	A133	DE	22 42 410		Kimura et al.	03-22-1973	—	—	

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>6</sup>
✓ AD	A134	Intelec '88 – Tenth International communications Energy Conference, "A look at the Impedance of a Cell – S.L. DeBardelaben, New York Telephone Company," bearing a designation "October 30-November 2, 1988." (6 sheets)			
✓ AD	A135	Battery Alert, Ltd., "The Easy-to-Install Battery Deterioration Warning Device", 12 Volt Model (BA101) Advertisement (2 sheets)			
✓ AD	A136	Journal of Applied Electrochemistry, Volume 10 Number 1, January 1980 – The Impedance of Electrical Storage Cells – N.A. Hampson, s.A.G.R. Karunathilaka, Department of Chemistry, R. Leek, Department of Electronic and Electrical Engineering, University of Technology, Loughborough, Leicestershire, UK (11 sheets).			
✓ AD	A137	Battery Evaluation Reports, s.e. Ross Laboratories, Inc., April 1999 (1 page)			
✓ AD	A138	HSR-003 Application Notes, Hermetic Switch, Inc., Highway 92, Post Office Box 2220, Chickasha, OK 73023, <a href="http://www.hermeticswitch.com/RS_frm.htm">http://www.hermeticswitch.com/RS_frm.htm</a> , available at least by 01/06/03 (1 page)			
✓ AD	A139	How It Works: Reed Switch Motor, <a href="http://members.tripod.com/simplemotor/rsmotor.htm">http://members.tripod.com/simplemotor/rsmotor.htm</a> , available at least by 01/06/03, 4 pages.			
✓ AD	A140	Reed Relay Technical & Applications Information, COTO Technology, 55 Dupont Drive, Providence, RI, pgs. <a href="http://www.cotorelay.com/ReedTech.pdf">http://www.cotorelay.com/ReedTech.pdf</a> , available at least by 01/06/03, 37-43.			

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	
				10/617,535	
				Filing Date	
				7/11/2003	
				First Named Inventor	
Date Submitted: September 17, 2004				Ingo Koch	
(use as many sheets as necessary)				Group Art Unit	
				2858	
				Examiner Name	
				To be determined DEB	
Sheet	5	of	6	Attorney Docket Number	
				054821-0862	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>6</sup>
✓ A7	A141	Willibert Schleuter, <u>Das elektrische Ersatzschaltbild des Bleiakкумуляtors unter Berücksichtigung erzwungener Elektrolytströmung</u> , etz Archiv, Vol.4 (1982), Issue 7, pages 213 -218		
✓ A7	A142	Lürkens et al., <u>Ladezustandsschätzung von Bleibatterien mit Hilfe des Kalman-Filter</u> , etz Archiv, Vol. 8 (1986), Issue 7, pages 231 -236		
✓ A7	A143	BROOKE, L., "Resin Keeps Batteries Cool", A1 Inside Magazine, November, 1998, pg. 55		
✓ A7	A144	HOOVER, J., "Failure Modes of Batteries Removed from Service", A Presentation at the 107 <sup>th</sup> Convention of Battery Council International, April 30-May 3, 1995, Page 62		
✓ A7	A145	STAN GIBILISCO and NEIL SCLATER, Co-Editors-in-Chief, "Rectifier Bridge," Encyclopedia of Electronics, 2 <sup>nd</sup> Edition, TAB Professional and Reference Books, 1996, pgs. 708-711.		
✓ A7	A146	LEHMAN, A., "Electrical Battery Model For Leo Application Based on Absolute Instantaneous State of Charge," Proceedings of the European Space Power Conference held in Madrid, Spain, October 2-6, 1989, ESA Publications, NL, Vol. 1, pages 173-178.		
✓ A7	A147	ROBBINS, TIM & HAWKINS, JOHN, "Battery Model For Over-Current Protection Simulation of DC Distribution Systems," Telecommunications Energy Conference, 1994, Intelec '94, 16 <sup>th</sup> International Vancouver, BC, Canada October 30-November 3, 1994, New York, NY, IEEE, pages 307-314 XP001036407 ISBN: 0-7803-2034-4.		
✓ A7	A148	MAYER, D. et al., "Modelling and Analysis of Lead Acid Battery Operation," Ecole des Mines de Paris, XP010092137, pages 1-3.		
✓ A7	A149	MAURACHER, P. & KARDEN, E., "Dynamic Modelling of Lead/Acid Batteries Using Impedance Spectroscopy for Parameter Identification," Journal of Power Sources, Elsevier Sequoia S.A., Lausanne, Ch., Vol. 67 (1997) No. 1-2, pages 69-84, XP004095174 ISSN: 0378-7753, pg. 70, line 11; page 82, line 5, figures 2, 3, 12.		
✓ A7	A150	BAERT, D & VERVAET, A., "Lead-Acid Battery Model for the Derivation of Peukert's Law," Electrochimica Acta, Elsevier Science Publishers, Barking, GB, Vol. 44, No. 20, pages 3491-3504 XP004168624 ISSN: 0013-4686.		

Examiner Signature	AJD	Date Considered	2/16/2005
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		First Named Inventor	Ingo Koch
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✓ AD	A151	International Search Report for PCT/US02/19760 (international filing date 06/21/2002), date of mailing 10/10/2002.	
✓ AD	A152	Conference Proceedings, Intelec '86 - International Telecommunications Energy Conference, Determining the End of Battery Life - Sheldon DeBardelaben, New York Telephone Company, bearing a designation "October 19-22, 1986." (6 sheets)	
✓ AD	A153	Bosch and the New E-Class, Electronic Battery Management System, Focus on Electronics, November 2002 (1 sheet)	
✓ AD	A154	Forecast Review, The Battery Man, November, 1996 Page. 21	
✓ AD	A155	OnGuard™ XT Battery State-of-Health Monitor, 2003 Midtronics, Inc. P/N 156-983A (2 sheets)	

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